

ABSTRACT OF THE DISCLOSURE

A porous ceramic material has mesopores with a diameter of 2 nm to 50 nm on its surface and is fibrous for the purpose of providing a porous ceramic material which has a very large specific surface area, is fibrous, is flexible and is very useful as catalysts, catalyst carriers, photocatalysts, sensors and oxide conductors. The porous ceramic material can be prepared by immersing the fibrous matrix in an aqueous solution containing a metal source, a surfactant and urea and heating the resulting mixture to thereby deposit a metallic compound on the outer surface of a fibrous matrix; and eliminating the fibrous matrix.